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Kurt A. Summe, Reg. No. 36,023

PATENT

ATTY, DOCKET NO: DEME-10C/119

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Kovac et al.

Art Unit:

3732

Serial No.

10/656.490

Examiner:

Not yet assigned

Filed:

September 5, 2003

Title:

APPARATUS AND METHOD FOR CURING MATERIALS

WITH RADIATION

Cincinnati, Ohio

September 1, 2004

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

RESUBMISSION OF INFORMATION DISCLOSURE STATEMENT

An Information Disclosure Statement was filed in the above-referenced case on August 31, 2004. Upon review of the files for this case, it appears that the last page of the Information Disclosure Statement filed on August 31, 2004 may not have been signed. Accordingly, the Applicant respectfully resubmits the Information Disclosure Statement herein and requests substitution of the attached signed Information Disclosure Statement for the earlier submitted Information Disclosure Statement in this case.

Respectfully submitted,

Wood, Herron & Evans, L.L.P. 2700 Carew Tower 441 Vine Street Cincinnati, Ohio 45202 Voice: (513) 241-2324

Facsimile: (513) 241-6234



Certificate of Mailing

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INFORMATION DISCLOSURE STATEMENT

In accordance with the duty of candor and good faith imposed by 37 CFR §1.56 and means of complying therewith according to 37 CFR §§1.97 and 1.98, the references listed on the attached forms PTO-1449 are called to the attention of the U.S. Patent and Trademark Office in connection with the above-identified application.

Subject to the Office's waiver of providing copies of U.S. patents and published applications for applications filed after June 30, 2003, only copies of the "Foreign" and "Other" patent references are provided, since this application was filed on September 5, 2003, and therefore, subsequent to June 30, 2003.

The Examiner is respectfully requested to review each reference cited and to note the review on the attached PTO-1449 forms, and to reach their own independent determination of its materiality, if any.

To the best of Applicant's knowledge and belief, this Information Disclosure Statement is being filed prior to the receipt of a first Office Action on the merits of this case, and therefore, no fees are believed to be due. However, if any charges or credits are necessary to complete this communication, please apply them to Deposit Account 23-3000.

Respectfully submitted,

Kurt A. Summe, Reg. No. 36,023

Wood, Herron & Evans, L.L.P. 2700 Carew Tower 441 Vine Street Cincinnati, Ohio 45202 Voice: (513) 241-2324

Facsimile: (513) 241-6234

SUBSTITUTE (MODIFIED)	FORM P	TO-	144	9				U. Pi	S. DEPARTM ATENT AND]	ENT OF COMMERCE	ATTY.	DOCKET NO 10C	D.	SERIA 10/656	
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	A.A	3	6	3	8	0	1	3	1/1972	Keller		240	41.15		
	A.B	3	7	1	2	9	8	4	1/1973	Lienhard					
	A.C	3	7	3	3	4	8	1	05/15/73	Kuyt					
	A.D	3	8	6	8	5	1	3	2/1975	Gonser		250	504		
	A.E	3	9	7	0	8	5	6	7/1976	Mahaffey et al.		250	493		
	A.F	4	0	4	8	4	9	0	9/1977	Troue		240	41.35		
	A.G	4	1	1	4	2	7	4	09/19/78	Jones					
-	A.H	4	1	1	4	9	4	6	09/19/78	Hoffmeister et al.					
	A.I	4	1	4	9	0	8	6	04/10/79	Nath					
	A.J	4	1	8	4	1	9	6	1/1980	Moret et al.		433	29		
	A.K	4	1	8	5	8	9	1	1/1980	Kaestner		350	167		
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	A.L.	DE	29	5 11	927	7		02/	O2/97	Germany					
	A.M	DE	42	11:	233			01/	29/92	Germany		A61C	1/08		No
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	A.S	Ca	o, <u>D</u>	ent	al C	urin	g Li	<u>ght,</u> L	JS2003/O2196	693, published Novembe	er 27, 20	03			
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Sheet 2 (B) of 15

SUBSTITUTE (MODIFIED)	FORM F	РΤΟ	-144	9							T OF COMMERCE DEMARK OFFICE	ATTY. DEME	DOCKET NO	O.	SERIA 10/656	
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	B.B	4	2	0	9	9	0	7	07/O1/80	T:	sukada et al.					
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	B.E	4	2	3	3	6	4	9	01/11/80	s	cheer et al.					
	B.F	4	2	8	0	2	7	3	7/1981	V	incent					
	B.G	4	2	9	8	8	0	6	11/1981	н	erold		250	504		
	в.н	4	3	3	7	7	5	9	7/1982	Р	opovich et al.		126	438		
	B.I	4	3	8	5	3	4	4	5/1983	G	onser		362	32		
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	B.L	EF	0 6	72	435			09/	20/95		Europe		A61N	5/06		N/A
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	B.N	EF	0 7	09 (598			05/	O1/96		Europe					N/A
	B.O	EF	0 7	36	307			10/	O9/96		Europe		A61N	5/06		N/A
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	B.R		oofn blish					g Fixt	ture for a Medi	ical	or Dental Handpiece	<u>e,</u> US200	1/0007739,	U.S. Pate	nt Appli	cation Publication,
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Sheet 3 (C) of 15

SUBSTITUTE (MODIFIED)	FORM P	TO-	144	9						ENT OF COMMERCE RADEMARK OFFICE	ATTY.	DOCKET NO 10C). 	SERIA 10/656	
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•	C.A	4	4	1	2	1	3	4	10/25/83	Herold et al.					
	C.B	4	4	4	5	8	5	8	05/O1/84	Johnson	···				
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	C.E	4	6	6	6	4	0	6	5/1987	Kanca, III		433	229		
	C.F	4	5	7	3	3	5	3	06/16/87	Nevin					
	C.G	4	7	1	6	2	9	6	12/29/87	Bussiere et al.					
	с.н	4	7	2	9	0	7	6	3/1988	Masami et al.		362	235		
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	C.J	4	7	9	2	6	9	2	12/20/88	Herold et al.					
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	C.R	Ge Ap _l	mur plica	nder ation	et a	al., blica	Pho atio	to Cu	ring Light Sys olished 2/7/O2	tem Having Modulated I	Light Inte	ensity Control	, US2002	/00148	64, U.S. Patent
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	C.T							Wave 5/2/0		trator and Illuminating D	<u>Device,</u> U	S20021/O05	1367, U.S	S.Patent	Application
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Sheet 4 (D) of 15

ATTY, DOCKET NO. SERIAL NO. U.S. DEPARTMENT OF COMMERCE SUBSTITUTE FORM PTO-1449 10/656.490 PATENT AND TRADEMARK OFFICE DEME/10C (MODIFIED) APPLICANT INFORMATION DISCLOSURE Kovac et al. STATEMENT BY APPLICANT **GROUP** FILING DATE (Use several sheets if necessary) 3732 September 5, 2003 (37 CFR 1.98(b)) U.S. PATENT DOCUMENTS FILING DATE **ISSUE EXAMINER** IF APPROPRIATE **SUBCLASS CLASS** PATENTEE INITIAL PATENT NUMBER DATE 5/1989 433 29 D.A 8 2 6 4 Fujimura et al. 4 8 3 6 8 06/06/89 Gonser D.B D.C 4 8 3 9 5 6 6 06/13/89 Herold et al. 96.24 350 D.D 8 6 5 4 6 7/1989 Cuda 4 4 504 8 8 8 4 8 9 12/1989 Bryan 250 D.E 4 313 500 9 5 6 5 6/1990 Murata 3 6 D.F 4 445 24 8 6/1990 Lee 9 3 6 0 8 D.G 4 2 5 08/14/90 Friedman D.H 4 9 4 8 1 315 312 7 10/1990 McDermott 4 9 6 3 9 8 D.I 437 9 9 9 3 0 3/1991 Kim 51 D.J 4 1 362 32 5 0 0 3 4 3 4 3/1991 Gonser et al. D.K FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS TRANSLATION DOCUMENT **PUBLICATION COUNTRY OR** CLASS SUBCLASS. (YES/NO) PATENT OFFICE NUMBER DATE A61C 19/00 No (in German) 12/02/98 Europe EP 0 880 945 D.L A61C 1/08 N/A 12/16/98 Europe EP 0 884 025 D.M N/A 12/16/98 Europe A61C 1/08 EP 0 885 025 D.N No (in German) A61C 1/08 D.O EP 0 998 880 05/10/00 Europe No (in French) 19/00 A61C D.P EP 1 031 326 08/30/O0 Europe 19/00 N/A A61C D.Q EP 1 090 607 04/11/01 Europe OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication) Kanca, III, John and Suh, Byoung I., Pulse Activation: Reducing Resin-Based Composite Contraction Stresses at the D.R Enamel Cavosurface Margins, Am. J. of Dentistry, 12(3), 107-112, 1999 Kato, Hiromasa, Relationship Between the Velocity of Polymerization and Adaptation to Dentin Cavity Wall of Light-Cured D.S Composite, Dental Materials J. 6(1): 32-37, 1987 Koran, Peter and Kurschner, Ralf, Effect of Sequential versus Continuous Irradiation of a Light-Cured Resin Composite on D.T Shsrinkage, Viscosity, Adhesion, and Degree of Polymerization, Am. J. of Dentistry, 11, No. 1, 17-22, 1998 DATE CONSIDERED **EXAMINER** EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE ATTY. DOCKET NO. SERIAL NO. SUBSTITUTE FORM PTO-1449 10/656,490 PATENT AND TRADEMARK OFFICE DEME/10C (MODIFIED) APPLICANT INFORMATION DISCLOSURE Kovac et al. STATEMENT BY APPLICANT **GROUP** FILING DATE (Use several sheets if necessary) 3732 September 5, 2003 (37 CFR 1.98(b)) U.S. PATENT DOCUMENTS FILING DATE **EXAMINER** ISSUE IF APPROPRIATE PATENT NUMBER **PATENTEE** CLASS **SUBCLASS** DATE INITIAL 5 04/16/91 0 Werly 8 3 E.A 0 05/21/91 E.B 5 0 4 ٥ Ascher 07/09/91 350 96.2 0 2 9 9 5 Hood E.C 5 118 641 05/26/92 5 7 Hood E.D 5 1 1 6 433 229 9/1992 E.E 5 1 2 0 Patten et al. 294 0 0 9/1992 Sawase et al. 315 E.F 5 1 5 1 6 206 E.G 5 6 8 7 9 11/1992 McDermott 362 1 1 Goodrich 313 511 E.H 5 6 2 6 9 6 11/1992 1 7 3 8 12/22/92 Yamakawa E.I 5 1 1 n 8 6 7 03/30/93 Oppawsky 5 1 9 8 E.J 4/1993 433 29 2 0 1 6 E.K 5 5 5 Friedman FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS **TRANSLATION PUBLICATION** COUNTRY OR DOCUMENT PATENT OFFICE CLASS **SUBCLASS** (YES/NO) NUMBER DATE N/A 04/11/01 A61C 19/00 E.L EP 1 090 608 Еигоре 1/08 N/A EP 1 093 765 04/25/01 Europe A61C E.M N/A A61C 19/00 EP 1 103 232 05/30/O1 Europe E.N A61C 1/08 No (in German) E.O EP 1 112 721 07/04/01 Europe A61C 19/00 N/A 10/04/01 E.P EP 1 138 276 Europe 10/04/01 A61N 5/06 N/A E.Q EP 1 138 349 Europe OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication) Lieb et al., Light-Emitting Handpiece for Curing Photopolymerizable Resins, US2003/O036031, published February 20, 2003 E.R LumiLeds Lighting LLC, Concept Evaluation Data Luxeon™ Star 5-Watt, Luxeon™ 5-Watt Prelminary Target Data Sheet, E.S Publication No. JP10 (Jan 2002) LumiLeds Lighting LLC, LED Application Note Dental Light Curing, LumiLeds Lighting Publication No. XXX(03.01), E.T Copyright© 2000 DATE CONSIDERED **EXAMINER**

Sheet 6 (F) of 15

ATTY. DOCKET NO. SERIAL NO. U.S. DEPARTMENT OF COMMERCE SUBSTITUTE FORM PTO-1449 10/656,490 PATENT AND TRADEMARK OFFICE DEME/10C (MODIFIED) **APPLICANT** INFORMATION DISCLOSURE Kovac et al. STATEMENT BY APPLICANT **GROUP** FILING DATE (Use several sheets if necessary) 3732 September 5, 2003 (37 CFR 1.98(b)) U.S. PATENT DOCUMENTS FILING DATE ISSUE **EXAMINER** IF APPROPRIATE **SUBCLASS CLASS** PATENT NUMBER DATE PATENTEE INITIAL 320 13 2 2 | 8 08/03/93 Kennedy F.A 5 3 3 3 745 0 2 09/07/93 Richardson et al. 210 5 2 4 2 6 FR 2 6 5 7 9 2 11/1993 Harrah et al. 228 6.2 F.C 5 356 313 2 6 2 9 01/11/94 Schlager et al. 7 8 F.D 5 2 4 2 2/1994 Imamura 250 208.1 5 8 3 F.E 433 29 3/1994 Friedman et al. 2 6 9 F.F 5 9 0 1 04/12/94 Lansing et al. 2 F.G 5 3 0 2 05/13/94 5 3 2 2 4 9 Kennedy F.H 1 29 433 3 6 4 7 3 5/31/94 Hare F.I 5 1 3 6 8 07/12/94 Lansing et al. F.J 5 13 2 8 115 3 7 8 2 6 12/6/94 Friedman 385 F.K 5 1 FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS **TRANSLATION** DOCUMENT **PUBLICATION** COUNTRY OR **SUBCLASS** (YES/NO) PATENT OFFICE CLASS NUMBER DATE A61C 19/00 N/A 05/22/02 Europe F.L EP 1 206 923 A61C 19/000 No (in German) 08/07/02 Europe F.M EP 1 228 738 Great Britain 7/1989 F.N GB 2 212 010 GB 2 329 756 03/31/99 GB F.O F.P JP 2 080 522 11/15/99 Japan Abstract only A61C01 00 F.Q JP 410033573 02/10/98 Japan OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication) LumiLeds Lighting LLC, Application Bulletin AB XXX, Luxeon™ Data Sheet, Publication No. xxxx-xxxx F.R LumiLeds Lighting LLC, Luxeon™ Power Light Sources of the Future, January 2001 - Mike Holt F.S LumiLeds Lighting LLC, Lumen Maintenance of White Luxeon™ Power Light Sources, Application Brief AB07, LumiLeds F.T Lighting, US LLC DATE CONSIDERED **EXAMINER** EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

ATTY, DOCKET NO. SERIAL NO. SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE 10/656,490 (MODIFIED) PATENT AND TRADEMARK OFFICE DEME/10C INFORMATION DISCLOSURE **APPLICANT** STATEMENT BY APPLICANT Kovac et al. **GROUP** FILING DATE (Use several sheets if necessary) 3732 September 5, 2003 (37 CFR 1.98(b)) U.S. PATENT DOCUMENTS FILING DATE ISSUE EXAMINER IF APPROPRIATE **CLASS SUBCLASS PATENTEE** PATENT NUMBER DATE INITIAL 12/1994 Kondo et al. 174 268 3 5 7 3 G.A 5/30/95 362 119 5 0 7 6 8 Kennedy G.B 4 2 10/10/95 Verderber 5 6 G.C 5 4 320 21 11/28/95 Mann G.D 5 4 7 1 1 2 9 433 37 5 4 8 6 6 2 01/30/96 Kipke et al. G.E 492.1 250 5 2 3 2 05/28/96 Kennedy et al. G.F 5 1 9 5 5 3 0 6 3 2 06/25/96 Shikano et al. G.G 2 372 43 5 3 5 3 0 7/1996 Abe 5 G.H 6 04/01/97 Cipolla 5 6 1 1 4 G.I 385 33 4 2 4/1997 Beach et al. 6 7 9 1 G.J 5 5 362 119 7 6/1997 Kennedy et al. 6 4 G.K 3 1 FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS TRANSLATION **PUBLICATION** COUNTRY OR DOCUMENT PATENT OFFICE **CLASS SUBCLASS** (YES/NO) NUMBER DATE No G.L JP 6-30275 1994 Japan Yes 1996 G.M JP 8-141001 Japan Yes 1997 Japan G.N JP 8-194786 Yes G.O JP 9-10238 1997 Japan N/A A61C 19/00 03/16/00 International G.P WO 00/13608 03/01/01 International A61N 5/06 N/A G.Q WO 00/14012 OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication) LumiLeds Lighting LLC, Application Note 1149-5, Secondary Optics Design Considerations for Super Flux LEDs, Copyright G.R © 2000 LumiLeds Lighting, Obsoletes Publication No. 5968-1215E, Publication No. AN06 (3/O0) Luxeon Dental Technical Data, Power Light Source, April, 2002 G.S MacDougald et al., U.S. Patent Application Publication No. US 2003/O015667 A1, Pub. Date: Jan. 23, 2003 G.T DATE CONSIDERED **EXAMINER** EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered.

Include a copy of this form with next communication to applicant.

Sheet 8 (H) of 15

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EXAMINER INITIAL			PA	TE	NT N	IUM	BEF	₹	ISSUE DATE		PATENTEE		CLASS	SUBC	LASS	FILING DATE IF APPROPRIATE
•	H.A	5	6	6	0	4	6	1	8/1997	Ignatii	us et al.		362	241		
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	H.C	5	6	9	8	8	6	6	12/1997	Doiror	n et al.		257	99		
	H.D	5	7	0	7	1	3	9	1/1998	Haitz		•	362	231		
	H.E	5	7	1	1	6	6	5	1/1998	Adam	et al.		433	9		
	H.F	5	7	4	7	3	6	3	5/1998	Wei e	t al.		438	5		
	H.G	5	7	5	9	0	3	2	06/O2/98							
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	H.J	5	9	1	2	4	7	0	06/15/99	Eibofr	ner et al.					
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•	I.A	5	9	7	5	8	9	5	11/O2/99	Sullivan				•	
	I.B	6	0	0	8	2	6	4	12/1999	Ostler et al.		522	4		
/	I.C	6	0	3	3	2	2	3	03/07/00	Narusawa et al.					
	I.D	6	0	╁	5	2	4	0	04/04/00	Hochstein					
	I.E	6	0	4	6	4	6	0	04/O4/O0	Mertins					
	I.F	6	0	6	5	9	6	5	05/23/00	Rechmann					
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	I.S							Ignat p. 20		., An LED-Array Light S	Source fo	r Medical Th	erapy, SP	IE Vol.	1892 Medical Lasers
	I.T	Sw	ift J	r., E	dwa	ard .	J. et	al., E	Ed., Contempo	rary Photocuring Issue	s, Part II,	J. Esthetic [Dentistry,	12 (1), 5	50-57, 2000
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	J.G	6	1	8	6	7	8	6	02/1301	Trushkowsky				-	
	J.H	6	1	9	3	5	1	0	02/27/01	Tsimerman					
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	K.E	6	3	7	9	1	4	9	04/30/O2	Franetzki					
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